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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/719,900	12/18/2000	Hubert Koch	00-726	6888	
7:	590 04/09/2002				
Bachman & Lapointe Suite 1201 900 Chapel Street			EXAMINER		
			IP, SIKYIN		
New Haven, CT 06510-2802			ART UNIT	PAPER NUMBER	
			1742	0	
			DATE MAILED: 04/09/2002	D	

Please find below and/or attached an Office communication concerning this application or proceeding.

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·	i	Application No. Applicant(s)		
Office Action Summary	Examiner		Group Art Unit	
—The MAILING DATE of this communication app	ears on the cover shee	t beneath the co	orrespondence ac	ldress—
P riod for Reply				
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET OF THIS COMMUNICATION.	r to expire	MONTH(S) FROM THE MAIL	ING DATE
 Extensions of time may be available under the provisions of 37 CF from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, If NO period for reply is specified above, such period shall, by defa Failure to reply within the set or extended period for reply will, by s 	a reply within the statutory mir ault, expire SIX (6) MONTHS f	nimum of thirty (30) rom the mailing dat	days will be considere	d timely.
Status				
PResponsive to communication(s) filed on 1/22/6	02			_
This action is FINAL.				 -
☐ Since this application is in condition for allowance exce accordance with the practice under <i>Ex parte Quayle</i> , 1	ept for formal matters, pro 935 C.D. 1 1; 453 O.G. 2	osecution as to	the merits is clos	ed in
Disp sition of Claims				
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	Of the above claim(s)			
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□ Claim(s)		is/are a	allowed	
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√ Claim(s) 15 - 24		is/are a	allowed. rejected.	
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DETAILED ACTION

Claim Rejections - 35 USC § 103

- 1. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
 - 1. Determining the scope and contents of the prior art.
 - 2. Ascertaining the differences between the prior art and the claims at issue.
 - 3. Resolving the level of ordinary skill in the pertinent art.
 - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 2. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).
- 3. Claims 15-20 and 23-24 are rejected under 35 U.S.C. § 103 as being unpatentable over EP 594509 (abstract and page 3, lines 14-19), PTO-1449), USP 5540791 to Matsuo et al (abstract and col. 4, lines 16-55), PTO-1449).
- 4. The cited reference(s) disclose(s) the features including the claimed elements added to form Al base alloy. Therefore, the subject matter as a whole would have been obvious to one having ordinary skill in the art at the time the invention was made to have selected the overlapping portion of the subject matter disclosed by the reference. Overlapping ranges have been held to be a prima facie case of obviousness,

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See MPEP § 2112.01, In re Best, 195 USPQ 430, In re Malagari, 182 USPQ 549, In re Titanium Metals Corporation of America v. Banner, 227 USPQ 773 (Fed. Cir. 1985), In re Woodruff, 16 USPQ 2d 1934, and In re Wertheim, 541 F.2d 257, 191 USPQ 90 (CCPA 1976).

- 5. Claims 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over EP 594509 or USP 5540791 to Matsuo et al as applied to claims above, and further in view of acknowledged prior art admission in page 1, lines 6-27 of the instant specification.
- 6. The claimed subject matter as is disclosed and rejected above by the cited reference(s) except for the holding the Al based alloy at its melting temperature. However, prior art admission discloses Al based alloy in the foundry is known to be held at the melting temperature 750 °C before cast. Therefore, it is contemplated within ambit of ordinary skill artisan to hold a conventional Al based alloy melt such as alloys of EP 594509 or Matsuo et al at 750 °C before cast for it is the known melting temperature for Al based alloys. In re Venner, 120 USPQ 193 (CCPA 1958), In re LaVerne, et al., 108 USPQ 335, and In re Aller, et al., 105 USPQ 233.

Response to Arguments

7. Applicant's arguments filed January 22, 2002 have been fully considered but they are not persuasive.

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8. Applicants argue that the combination of adding Be and V to reduce dross-formation in Al melt cannot be derived from cited references. But, Matsuo in col. 4, lines 16-41 and EP '509 in page 3, lines 14-19 clearly teach to add Be to reduce oxidation of Mg during melting. Said references also teach to add V for grain refinement. References may add V for different reason. But applicants may have a different reason for or advantage resulting from doing what the prior art relied upon has suggested does not demonstrative of nonobviousness, *In Re Kronig* 190 USPQ 425, 428 (CCPA 1976); *In Re Lintner* 173 USPQ 560 (CCPA 1972); the prior art motivation or advantage may be different than that of applicant while still supporting a conclusion of obviousness. *In re Wiseman* 201 USPQ 658 (CCPA 1979); *Ex parte Obiaya* 227 USPQ 58 (Bd. of App. 1985).

Conclusion

9. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

The above rejection relies on the reference(s) for all the teachings expressed in the text(s) of the references and/or one of ordinary skill in the metallurgical art would have reasonably understood or implied from the text(s) of the reference(s). To

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emphasize certain aspect(s) of the prior art, only specific portion(s) of the text(s) have been pointed out. Each reference as a whole should be reviewed in responding to the rejection, since other sections of the same reference and/or various combination of the cited references may be relied on in future rejection(s) in view of amendment(s).

All recited limitations in the instant claims have been meet by the rejections as set forth above.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See MPEP § 2163.06 (a) and 37 C.F.R. § 1.119.

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (703) 308-2542. The examiner can normally be reached on Monday to Friday from 5:30 A.M. to 2:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Dr. Roy V. King, can be reached on (703)-308-1146.

The facsimile phone number for this Art Unit 1742 are (703) 305-3601 (Official Paper only) and (703) 305-7719 (Unofficial Paper only). When filing a FAX in Technology Center 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are not for entry into the file of the application. This will expedite processing of your papers.

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SIKYIN IP PRIMARY EXAMINER ¹ ART UNIT 1742

S. Ip April 7, 2002